

# The BC1 BreadBoard

The BC1 BreadBoard is a generic 74xx240 hookup module for circuits not fitting any of the other modules. It has pads and labels to make custom Bicare experiments easy. Arrows show the path of the logic inverters on both sides of the PCB, and there are convenient ground pads next to each input for easy grounding of unused gates.

**Necessary Parts:**

- 1 x 74AC240 or 74HCT240
- 1 x 22 $\mu$ F Electrolytic Pwr Filtration Capacitor (C3)

**Other Parts:**

Whatever else you require for your experiments!

The board is pre-wired "on", although there is resistor location R1 for those who wish to enable manual toggling. Additionally, the second enable line is easily isolated and toggled separately from the first enable.

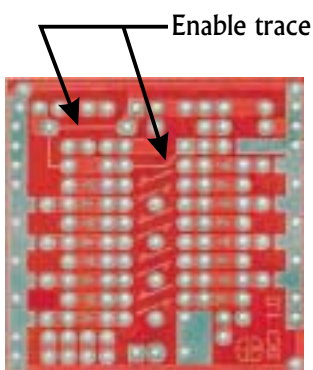
You may wish to use a 74HCT240 if you are going to be configuring several Bicores on the same breadboard. The 74AC240 has a tendency to synchronize multiple Bicores running on the same chip/power rail.

There is space for a power filtration cap at C1 on the PCB to help reduce power-rail fluctuations.



Top

- Edge Rail of PCB is Ground (-)
- Center Rail down middle is Vcc (+)
- PCB pre-enabled "on". Can over-ride by cutting trace on bottom, and adding resistor R1.
- Logic gate inputs labeled with arrow pointing inwards.
- Logic gate outputs labeled with arrow pointing outwards.
- Logic gate paths shown on bottom.



Bottom

- It's a good idea to connect unused inputs to ground. Otherwise, they can generate circuit-disturbing, power-consuming, high-frequency pulses.

